1	<u>CLAIMS</u>
2	What is claimed is:
3	
4	A damper control device comprising, in combination:
5	a fireplace and a flue, wherein products of combustion from the fireplace
6	enter the flue;
7	a damper positioned in a damper pipe operatively connected to the flue,
8	wherein the damper is movable between a closed position where the damper pipe is
9	blocked and an open position;
10	a motor having a rotatable shaft extending therefrom operatively connected to
11	the damper; and
12	a control circuit which transmits a fireplace signal to open a gas valve to
13	initiate combustion and to close a gas valve terminate combustion at the fireplace,
14	and which receives a damper signal indicating whether the damper is in the closed
15	position or the open position;
16	wherein when a fire is desired at the fireplace, the control circuit sends the
17	fireplace signal to open the gas valve after receiving the damper signal indicating
18	that the damper is in the open position.
19	
20	2. The damper control device of claim 1 wherein the fireplace is a gas fireplace
21	and after the damper is in the open position the control circuit sends the fireplace
22	signal to the fireplace to ignite gas at the gas fireplace.

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1	3.	The damper control device of claim 2 wherein the damper moves to the		
2	closed	d position at a predetermined time after the gas fireplace circuit has sent the		
3	fireplace signal to terminate combustion by shutting off the gas at the gas fireplace.			
4				
5	4.	The damper control device of claim 1 wherein the damper is positioned near a		
6	top of the flue.			
7				
8	5.	The damper control device of claim 1 further comprising a status module		
9	comp	rising at least one of indicators and a service switch to send a signal to hold the		
10	damper in the open position.			
11				
12	6.	The damper control device of claim 5 wherein each indicator indicates the		
13	status	of one of: whether the damper signal indicates the damper is in the open		
14	position or the closed position; whether the fireplace signal has been sent; and			
15	whether the damper control device has power.			
16				
17	7.	The damper control device of claim 1 wherein the control circuit sends a		
18	signal	to hold the damper in the open position in response to predetermined criteria		
19	comp	rising at least one of heat, carbon dioxide concentration, and carbon monoxide		
20	conce	entration.		
21				
22	8.	A damper control device comprising, in combination:		

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a damper pipe adapted to be connected to a flue;

1	a damper positioned in the damper pipe and movable between a closed		
2	position and an open position;		
3	a motor having a rotatable shaft extending therefrom operatively connected to		
4	the damper;		
5	a control circuit which controls the motor to rotate the shaft and in turn rotate		
6	the damper to the closed position and to the open position; and		
7	a mounting member, wherein the mounting member is a plate extending		
8	generally perpendicularly from the damper pipe and is adapted to connect to a		
9	chimney.		
10			
1	9. The damper control device of claim 8 further comprising mounting brackets		
2	affixed to the mounting member and adapted to connect to the chimney.		
3			
4	10. The damper control device of claim 8 wherein a projection of the damper pipe		
5	extends past the mounting ring and is adapted to enter the flue.		
16			
17	11. The damper control device of claim 8 wherein the motor is housed in a		
8	damper control box remote from the damper.		
9			
20	12. The damper control device of claim 11 wherein the shaft extends from the		
21	damper control box to the damper pipe and is at least partially enclosed by a shrout		
22			

1	13.	The damper control device of claim 12 wherein the shroud is provided with			
2	ventilating holes.				
3					
4	14.	A damper control device comprising, in combination:			
5		a damper pipe;			
6		a damper positioned in the damper pipe and movable between a closed			
7	position and an open position;				
8		a motor having a rotatable shaft extending therefrom operatively connected to			
9	the damper;				
10		a control circuit which controls the motor to rotate the shaft and in turn rotate			
11	the damper to the closed position and to the open position; and				
12		an adapter comprising an interior pipe and an exterior pipe connected to the			
13	interi	or pipe, with a first air passageway formed between the interior pipe and the			
14	exter	ior pipe and a second air passageway formed in the exterior pipe so that air car			
15	pass	through the first and second air passageways and past the adapter;			
16		wherein the interior pipe is connected to the damper pipe and adapted to be			
17	conn	ected to an air-cooled flue.			
18					
19	15.	The damper control device of claim 14 wherein the interior pipe is adapted to			
20	fit sn	ugly inside the air-cooled flue.			
21					
22					
23					

1	13. The damper control device of claim 12 wherein the shroud is provided with		
2	ventilating holes.		
3			
4	14. A damper control device comprising, in combination:		
5	a damper pipe;		
6	a damper positioned in the damper pipe and movable between a closed		
7	position and an open position;		
8	a motor having a rotatable shaft extending therefrom operatively connected to		
9	the damper;		
10	a control circuit which controls the motor to rotate the shaft and in turn rotate		
11	the damper to the closed position and to the open position; and		
12	an adapter comprising an interior pipe and an exterior pipe connected to the		
13	interior pipe, with a first air passageway formed between the interior pipe and the		
14	exterior pipe and a second air passageway formed in the exterior pipe so that air cal		
15	pass through the first and second air passageways and past the adapter;		
16	wherein the interior pipe is connected to the damper pipe and adapted to be		
17	connected to an air-cooled flue.		
18			
19	15. The damper control device of claim 14 wherein the interior pipe is adapted to		
20	fit snugly inside the air-cooled flue.		
21			
22			